IN THE CLAIMS:

Please cancel claims 1, 11 and19.

Please amend claims 2, 3, 6, 7, 10, 12-15, 18, and 20-24 as set forth below.

A complete listing of the claims of this application and their current status follows:

1. (cancelled)

2. (currently amended) A ~~The~~ system ~~of claim 1~~ comprising:

a memory, wherein the memory includes a plurality of logical memory devices; and

a network switch coupled to the memory, wherein the switch is adaptable to write a first portion of received packet data to a first of the plurality of logical memory devices and to write a second portion of the packet data to a second of the plurality of logical memory devices and ~~wherein the network switch is further adaptable~~ to write a third portion of the ~~received~~ packet data to a third of the plurality of logical memory devices.

3. (currently amended) The system of claim ~~1~~ 2 wherein the network switch comprises a memory controller.

4. (original) The system of claim 3 wherein the memory controller comprises:

a first memory controller component coupled to the first logical memory device; and

a second memory controller component coupled to the second logical memory device.

5. (original) The system of claim 4 wherein the first memory controller component and the second memory controller component access the corresponding logical memory devices via a shared address line.

6. (currently amended) The system of claim 2 wherein the first, second and third of the plurality of logical memory devices comprise synchronous dynamic random access memories (SDRAMs).

7. (currently amended) The system of claim 2 wherein the first of the plurality of logical memory devices comprises a synchronous static random access memories (SSRAMs) and the second and third of the plurality of logical memory devices comprise synchronous dynamic random access memories (SDRAMs).

8. (original) The system of claim 3 wherein the memory controller maintains a record of the last of the plurality of logical memory devices that was written to.

9. (original) The system of claim 3 wherein the network switch further comprises:

a receiver coupled to the memory controller;

a transmitter coupled to the memory controller;

address resolution logic coupled to the memory controller; and

packet queuing control coupled to the memory controller, the receiver, the transmitter and the address resolution logic.

10. (currently amended) The system of claim ~~3~~ 9 wherein the network switch further comprises a media access controller (MAC) coupled to the receiver, wherein the MAC receives packet data via a plurality of ports coupled to the receiver.

11. (cancelled)

12. (currently amended) A network switch ~~The system of claim 11~~ comprising:

a first media access controller (MAC) coupled to a plurality of ports;

a receiver coupled to the first MAC; and

a memory controller coupled to the receiver, wherein the memory controller is adaptable to write a first portion of a first data packet received from a first of the plurality of ports to a first logical memory device and write a second portion of the first data packet received from the first port to a second logical memory device and ~~wherein the memory controller is further adaptable~~ to write a third portion of the first data packet received from the first port to a third logical memory device.

13. (currently amended) The system of claim ~~11~~ 12 wherein the memory controller is adaptable to write a first portion of a second data packet received from the first port to a ~~third~~ fourth logical memory device and write a second portion of the second data packet received from the first port to a ~~fourth~~ fifth logical memory device.

14. (currently amended) The system of claim ~~11~~ 12 wherein the memory controller is adaptable to write a first portion of a first data packet received from a second of the plurality of ports to the first logical memory device and write a second portion of the first data packet received from the second port to ~~a~~ the second logical memory device.

15. (currently amended) The system of claim ~~11~~ 12 wherein the memory controller comprises:

a first memory controller component coupled to the first logical memory device; and

a second memory controller component coupled to the second logical memory device.

16. (original) The system of claim 15 wherein the first memory controller component and the second memory controller component access the corresponding logical memory devices via a shared address line.

17. (original) The system of claim 12 wherein the first, second and third logical memory devices comprise synchronous dynamic random access memories (SDRAMs).

18. (currently amended) The system of claim 12 wherein the first logical memory ~~devices~~ device comprises a synchronous static random access memories (SSRAMs) and the second and third logical memory devices comprise synchronous dynamic random access memories (SDRAMs).

19. (cancelled)

20. (currently amended) A ~~The~~ method ~~of claim 19 further~~ comprising:

receiving a first data packet at a network switch;

writing a first portion of the first data packet to a first logical memory device coupled to the network switch; and

writing a second portion of the first data packet to a second logical memory device coupled to the network switch

writing a third portion of the first data packet to a third logical memory device coupled to the network switch.

21. (currently amended) The method of claim ~~19~~ 20 further comprising:

receiving a second data packet at a the network switch;

writing a first portion of the second data packet to the first logical memory device; and

writing a second portion of the second data packet to the second logical memory device.

22. (currently amended) The method of claim ~~19~~ 20 further comprising determining at the network switch the last logical memory device to which a portion of the first data packet was written.

23. (currently amended) The method of claim ~~22~~ 20 further comprising:

determining whether the size of a third portion of the ~~first~~ data packet is less than a predetermined value; and

if so, writing the third portion of the ~~second~~ data packet to both banks of a third logical memory device.

24. (currently amended) The method of claim ~~22~~ 23 further comprising:

determining whether the size of a third portion of the ~~first~~ data packet is less than a predetermined value; and

if not, writing a first sub-portion of the third portion of the ~~first~~ data packet to a first bank of a third logical memory device and writing a second sub-portion of the third portion of the ~~first~~ data packet to a second bank of the third logical memory device.